



# SCOTT PRAMUK

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## Education

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### California Polytechnic State University, San Luis Obispo

Sep. 2021– June 2025

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Overall GPA: 3.984*

### Relevant Coursework:

Data Structures and Algorithms, Object-Oriented Programming, Discrete Structures, Methods of Proof, Systems Programming, Design and Analysis of Algorithms, Database Systems, Theory of Computation

## Programming Projects

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### Machine Learning Stock Direction Predictor

August 2023 - September 2023

*Languages and Tools Used: Python, VScode, scikit-learn*

- Used Random Forest Classification to predict stock price direction after varying amounts of days
- Integrated with Alpha Vantage API for stock price and trading data used to train model
- Stored predictions and assessed accuracy visually via graphs created with matplotlib library

### HTTPD, Web Server

May 2023 - June 2023

*Languages and Tools Used: C, Vim, Git*

- Built a simple web server that supports a subset of HTTP from the ground up
- Incorporated cgi-like support that allows program to execute on server and provide output back to user
- Utilized C-based system calls (e.g., fork, exec) and proper resource management of child processes and pointers

### Pathfinding Visualizer

March 2023 - April 2023

*Languages and Tools Used: JavaScript, HTML, CSS, Git, VS Code*

- Created a web page using HTML and CSS to visualize, compare DFS, BFS, A\*, and Dijkstra's
- Implemented multiple path finding algorithms and corresponding animations in JavaScript and CSS
- Used JavaScript to facilitate dynamic user interaction– i.e. adding weighted nodes and walls

### Simulated File System in Linux VM

February 2023 - March 2023

*Languages and Tools Used: C, Linux VM, Vim*

- Created a program that simulated a file system via an inodes list file and corresponding inode data files
- Built functionality for interactive commands such as: cd, ls, mkdir, touch, and exit via the stdin stream

## Work Experience

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### California Center Construction Education, California Polytechnic SLO

January 2023 – Current

*Website Manager*

*San Luis Obispo, California*

- Update and rework multiple websites via content management systems such as WordPress and Drupal
- Collect and display data to google sheets from Eventbrite via JavaScript and Eventbrite API calls on Google App Scripts

### California Polytechnic SLO

January 2023 – June 2023

*Assistant Grader/ Student Tutor*

*San Luis Obispo, California*

- Created coding projects and graded assignments for Data Structures and Algorithms, and Introduction to Computer Science courses
- Helped class of 30+ students solidify their understanding of material in lab sections

## Skills

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**Programming Languages:** Python, JavaScript, Java, C, HTML, CSS, SQL, RISC-V Assembly

**Software Tools:** VS Code, Git, Vim, Pycharm